HP ProLiant DL385 G7 Server

Data sheet

Ideal for virtualisation, the HP ProLiant DL385 G7 Server enables you to deploy more virtual machines with complete confidence – giving you greater value for every IT dollar.

Designed with virtualisation in mind, the DL385 G7 server features the latest 12- or 8-core 6100 Series AMD Opteron™ processors and is ideal for demanding workloads that require high levels of performance. The DL385 G7 server comes with a new larger memory footprint and DDR3 Memory DIMMs, embedded network interface cards (NIC), internal USB and secure digital (SD) card reader, plenty of PCI expansion slots and internal storage, making it well suited for a wide range of applications and environments.

The DL385 G7 server is expandable and flexible. Multiple drive cage options provide internal storage of up to 9.6 TB with 16 small form factor (SFF) drives or up to 12 TB with six large form factor (LFF) hard drives, 10 Gigabit NIC support, and a choice of two out of four PCI riser boards for I/O flexibility. The Embedded Modular Smart Array Controllers deliver superior performance with the flexibility to seamlessly add cache and battery-backed write cache (BBWC) or flash-backed write cache (FBWC).

As always, you can rely on ProLiant for the best in industry-standard management, including HP Insight Control, new HP Integrated Lights-Out 3 (iLO 3), and Trusted Platform Module (TPM) support – all designed to give you the confidence in your business and the ability to squeeze every bit of productivity out of your server infrastructure. HP also helps you achieve power efficiencies within your environment, using technologies such as HP Power Regulator, and Insight Control power management with Dynamic Power Capping. With over 11,000 ProLiant design and quality tests, you can increase server productivity for the long haul.

So although the DL385 G7 server is ideal for virtualisation, its flexibility makes it the right fit for any business need, from small businesses to complex dynamic enterprise environments. The perfect balance of price/performance, flexibility, expandability, reliability, and energy efficiency, makes the DL385 G7 server cost-effective.

Key features and benefits

Enhanced performance
The DL385 G7 server now supports high-performing 12- or 8-core AMD Opteron processors with 12 MB L3 cache. The new processor includes AMD Core Select, a feature that enables IT managers to turn off one or more software visible cores, helping to fine-tune hardware for specific operating conditions and workloads. As a result, applications can benefit from increased memory bandwidth and cache per core.

- Up to two (2) AMD OpteronTM 6100 Series 12- or 8-core 'Magny-Cours' processors with 12 MB L3 cache enable you to work faster for demanding scale-out applications
- Two HP NC382i Integrated Dual Port Multifunction Gigabit Server Adapters (four ports total) free up PCI slots and support more virtual machines
- 24 DIMMs sockets for up to 256 GB of DDR3 Memory delivers a large memory footprint – ideal for memory-intensive applications
- Support for up to 16 SFF or six LFF drives gives your system architecture room to grow
- Up to six PCI slots (PCIe Gen2) with optional PCI-X, x16, or dual port 10GbE risers provide I/O flexibility

Virtual perfection
If you are looking for a reliable server platform for your virtualisation projects, the DL385 G7 server is designed for you.

- Robust memory and NIC features support virtual machines and compute-intensive business needs
- HP Insight Control tools allow you to manage both virtual and physical IT through a single console
- Integrated VMware and XenServer virtualisation technology and internal USB and SD Card Reader help you to deploy virtual machines easily and more securely

Essential management
When you select the DL385 G7 server as the core of your infrastructure, you are choosing to run your business with confidence. Bringing to you comprehensive management capabilities, it can help you take total control of your infrastructure allowing you to respond quickly to business needs. Insight Control featuring iLO 3 helps you reduce downtime and improve productivity.

- HP Insight Control is essential server management that allows you to deploy ProLiant servers quickly, proactively monitor server health and performance, streamline power confidently and take complete remote control from anywhere.
- HP Insight Control with Dynamic Power Capping technology enables you to improve your server capacity up to 3x by allowing you to fit more servers into your current power envelope
- Front-accessible Systems Insight Display helps locate hardware errors quickly and enables walk-up system diagnostics – saving administrators' time

Versatility and availability
The DL385 G7 server is engineered for reliability and ease of ownership, giving you flexible deployment options.

- The highly versatile 2U rack design offers flexibility and easy serviceability
- Choice of four modular configurations – including high wattage x16, legacy PCI-X, and dual port 10-GbE riser options – allow you to build your own I/O
- Expandable storage with support for up to 16 SFF or six LFF drives enables you to meet your storage requirements with ease
- For your internal storage needs, you can rely on any of the modular Smart Array storage controllers – the P410i comes standard in all models – and seamless upgradability from zero memory to 1 GB FBWC.
- The common power slot strategy drives high-efficiency solutions to a regular size and connection – resulting in reduced spares
- Hot-plug redundant power supplies and fans provide for greater uptime
- The TPM option reduces data security concerns through its support for data encryption

Energy efficiency
The DL385 G7 server high-efficiency power options allow you to 'right-size' based on your configuration requirements and save on energy costs. In addition, you can make use of HP Thermal Logic to take charge of power and cooling across your data centre.

- Choice of four power supplies (460W AC, 750W AC, 1200W AC, or 1200W DC) gives you the ability to match your specific workload and significantly reduce power wastage
- Dynamic Power Capping – an example of Thermal Logic technology – reallocates power and cooling resources by dynamically 'capping' the power drawn by servers, helping you reclaim over provisioned energy
- Power Regulator and Power Meter for ProLiant deliver integrated power monitoring and server-level, policy-based power management with energy efficiency and savings on system power and cooling costs
- Power supply high-efficiency mode enables power supplies to operate at greater efficiency under all conditions

Ease of ownership
The DL385 G7 server is easy to own and manage, with industry-standard tools and components.

- Common ProLiant options and accessories enable you to better manage your IT and time
- A cable management arm and a quick deploy rail solution make racking a snap
- Tool-free chassis design enhances reliability and allows easy accessibility

Ideal environment

Environments of all types and sizes
While the DL385 G7 server is ideal for virtualisation, it is flexible to support any business need in many environments – from corporate data centres to sophisticated small and medium businesses (SMBs).

- With its large internal storage capacity of up to 12 TB, the DL385 G7 server is well suited for everything from Web applications to databases
- It can be easily connected to storage networks and managed from one place – reducing manageability time

Space-constrained corporate data centres and service providers

- The DL385 G7 server packs the storage, memory, and I/O you need into only 2U of rack space
- Availability features such as hot plug redundant power, advanced ECC memory, and hot plug redundant fans keep environments up and running and users productive

Sophisticated SMB locations

- The DL385 G7 server is not just for enterprises. SMBs with rack environments that can benefit from remote server management or network backup should consider the DL385 G7 server

The DL385 G7 server is well-suited for:

- Virtualised environments
- Server-based computing
- Medium scale mail and messaging
- Web and application server
- Small to medium databases
- Terminal services (Citrix)
- File and print
- Data centre utility
- Computer-aided design (CAD), digital content creation (DCC), and visualisation applications

HP Financial Services

HP Financial Services provides financing and financial asset management programmes to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information, contact your HP sales representative or visit:
www.hp.com/go/hpfinancialservices

HP Services

When technology works, business works
The challenge of virtually every IT organisation is similar – to develop and maintain an agile, efficient server infrastructure that delivers the service levels your business needs.

HP Technology Services offers a comprehensive portfolio of HP Care Pack Services to help design, deploy, manage and support your IT environment, enabling cost-effective upgrades to standard warranty with easy-to-buy and easy-to-use support packages.

Minimum recommended HP Care Pack offerings

- 3-year, same business day, 4-hour response onsite, 24-hour, 7-day coverage, hardware support.
- Hardware installation plus operating system installation and startup.

Enhanced service level Care Pack offerings

- **Three-year Support Plus 24**: Integrated 24x7 hardware and software operating support.
- **Proactive Select**: Access to HP technical consultants. Purchase service credits and obtain expertise when needed.

Benefit from HP Care Pack Services that help you

- Reduce deployment time and manage ProLiant server solutions smoothly and efficiently.
- Increase uptime and performance of server availability to your business.
- Detect, diagnose and repair problems quickly to save time, money and resources.

For more information, visit
www.hp.com/services/proliantservices or
www.hp.com/go/proliant/carepack

HP ProLiant DL385 G7 Server
Technical specifications

Processor type	AMD Opteron™ 6100 Series
Available processors	**12-Core Processors** AMD Opteron™ Processor Model 6176SE (2.3 GHz, 12 MB Level 3 Cache, 105W) AMD Opteron™ Processor Model 6174 (2.2 GHz, 12 MB Level 3 Cache, 80W) AMD Opteron™ Processor Model 6172 (2.1 GHz, 12 MB Level 3 Cache, 80W) **8-Core Processors** AMD Opteron™ Processor Model 6136 (2.4 GHz, 12 MB Level 3 Cache, 80W) AMD Opteron™ Processor Model 6134 (2.3 GHz, 12 MB Level 3 Cache, 80W) AMD Opteron™ Processor Model 6128 (2.0 GHz, 12 MB Level 3 Cache, 80W) AMD Opteron™ Processor Model 6128HE (2.0 GHz, 12 MB Level 3 Cache, 65W)
Processor core	12- or 8-Core
Cache Memory	12 MB Level 3 Cache
Max Processor Speed	2.4 GHz 8-core; 2.3 12-core
Multi-processor	2
Memory Type	DDR3 Registered and Unbuffered
Standard Memory	4 GB (2 x 2 GB UDIMM) HE; 4 GB (2 x 2 GB RDIMM) Entry; 8 GB (4 x 2 GB RDIMM) Base; 16 GB (8 x 2 GB RDIMM) Performance
Max Memory	256 GB Registered; 64 GB Unbuffered
Advanced Memory Protection	Advanced ECC
Storage Type	Hot plug 2.5-inch SAS/SATA Hot plug 3.5-inch SAS/SATA
Number of Hard Drives	16 SFF (with optional second drive cage) or 6 LFF (with optional drive cage)
Removable Media Bays	1
Expansion Slot	Six (6) PCI slots – (PCIe Gen2) optional PCI-X/PCI-Express, x16 PCI, or dual port 10GbE risers
Storage Controller	Embedded Smart Array Controller: P410i/1 GB FBWC (Performance); P410i/256 (Base); P410i (Entry/HE)

Deployment	
Form Factor	Rack
Rack Height	2U
Networking	Two HP NC382i Integrated Dual Port Multifunction Gigabit Server Adapters (four ports total)
Infrastructure Management	HP Insight Control (standard on performance models)
Server Management	HP Insight Control featuring Integrated Lights-Out Advanced
Redundant Power Supply	Redundant standard on performance models, optional on entry and base models
Redundant Fans	Redundant standard
Warranty	3-year parts/3-year labour/3-year onsite

If you are looking for a reliable server platform for your virtualisation projects, the DL385 G7 server is the ideal choice. To learn how the HP ProLiant DL385 G7 server helps you deploy more virtual machines with greater confidence and provides value for your money, visit: **www.hp.com/servers/dl385-g7**

Share with colleagues

Get connected
www.hp.com/go/getconnected
Current HP driver, support, and security alerts delivered directly to your desktop

© Copyright 2010 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

AMD, the AMD Arrow logo, AMD Opteron and combinations thereof, are trademarks of Advanced Micro Devices, Inc.

4AA0-1233EEW, Created April 2010